

**Table NG5. Regulated Sales<sup>1</sup> of Natural Gas by Gas Utilities,\* 1950-2000 (million cubic feet)**

Note: The gas sales numbers in this table are significantly lower than the total gas consumption numbers in Table NG2 for several reasons. First, these sales data are taken from annual reports filed by utilities to the Montana Public Service Commission. The way utilities report gas sales to the PSC is different from the way in which Table NG2 total consumption numbers are calculated by the U.S. Energy Information Administration. Also, much of industrial consumption since 1991 is not reported in this table due to different reporting requirements and processes used by utilities since deregulation. These include the practice of not reporting gas used for pipeline transportation. This table does not include gas sales sold to other utilities for resale in Montana, lease and plant fuel, pipeline fuel, or fuel used by utilities.

	MONTANA POWER COMPANY <sup>2</sup>					MONTANA-DAKOTA UTILITIES <sup>3</sup>				
Year	Residential and Commercial	Industrial	Other	Total	% of Total Montana Sales	Residential and Commercial	Industrial	Other	Total	% of Total Montana Sales
1950	7,909	8,852	NA	16,761	54.2%	4,228	240	469	4,937	16.0%
1951	8,076	12,970	NA	21,046	59.3%	5,514	1,180	499	7,193	20.3%
1952	8,435	13,760	NA	22,195	62.0%	7,340	1,845	468	9,653	26.9%
1953	8,229	13,624	NA	21,853	61.9%	7,223	1,863	480	9,566	27.1%
1954	8,737	12,225	NA	20,962	59.3%	7,912	1,649	495	10,056	28.4%
1955	11,231	15,511	NA	26,742	63.9%	7,594	1,996	533	10,123	24.2%
1956	11,100	15,584	NA	26,684	63.4%	7,708	2,212	509	10,429	24.8%
1957	12,584	15,527	NA	28,111	64.4%	7,797	2,056	492	10,345	23.7%
1958	12,391	15,173	NA	27,564	62.7%	7,429	3,233	551	11,213	25.5%
1959	14,401	12,629	NA	27,030	59.6%	8,678	2,934	507	12,119	26.7%
1960	14,533	15,462	NA	29,995	62.3%	8,516	3,148	342	12,006	25.0%
1961	14,517	16,654	NA	31,171	62.7%	8,689	3,606	177	12,472	25.1%
1962	15,133	18,080	NA	33,213	64.1%	9,148	3,051	103	12,302	23.7%
1963	14,893	19,666	NA	34,559	64.6%	8,826	3,862	79	12,767	23.9%
1964	16,853	20,958	NA	37,811	64.1%	9,620	4,687	55	14,362	24.4%
1965	17,977	22,195	NA	40,172	63.9%	10,955	4,430	61	15,446	24.6%
1966	17,731	23,058	NA	40,789	65.2%	10,414	4,256	55	14,725	23.5%
1967	18,027	20,766	NA	38,793	64.5%	10,584	3,813	67	14,464	24.0%
1968	19,063	21,650	NA	40,713	64.6%	10,847	4,523	65	15,435	24.5%
1969	19,891	25,536	NA	45,427	64.2%	11,534	6,277	55	17,866	25.3%
1970	20,398	26,006	NA	46,404	62.9%	11,499	8,582	102	20,183	27.3%
1971	18,956	25,581	1,628	46,165	62.9%	11,612	8,317	139	20,068	27.3%
1972	20,068	26,128	1,491	47,687	62.4%	12,352	8,218	600	21,170	27.7%
1973	19,771	25,915	1,578	47,264	62.3%	11,525	8,685	1,415	21,623	28.5%
1974	18,931	26,301	1,408	46,640	63.4%	11,230	8,455	588	20,273	27.6%
1975	20,762	24,130	1,523	46,415	62.5%	12,779	7,774	NA	20,553	27.7%
1976	18,795	20,663	1,405	40,863	61.0%	12,208	7,100	NA	19,307	28.8%
1977	18,413	18,101	1,451	37,965	61.4%	11,898	5,923	NA	17,821	28.8%
1978	18,696	17,280	1,498	37,475	60.5%	13,784	3,981	NA	17,765	28.7%
1979	19,142	16,118	2,737	37,997	62.0%	13,500	3,480	NA	16,981	27.7%
1980	17,091	12,655	4,986	34,733	62.9%	11,332	3,627	NA	14,959	27.1%
1981	15,216	9,758	2,754	27,727	57.8%	10,312	5,307	NA	15,618	32.6%
1982	17,032	7,064	1,317	25,413	54.6%	12,228	4,148	60	16,436	35.3%
1983	14,606	6,829	1,152	22,587	54.8%	10,181	3,774	32	13,987	34.0%
1984	16,075	5,967	1,238	23,280	56.3%	10,744	2,451	59	13,254	32.1%
1985	16,916	6,043	1,271	24,230	58.3%	11,094	1,336	19	12,449	29.9%
1986	14,461	5,208	1,099	20,768	58.6%	9,191	607	15	9,813	27.7%
1987	14,090	5,358	748	20,196	62.6%	7,712	254	15	7,981	24.7%
1988	15,027	6,652	732	22,410	63.2%	8,285	475	17	8,776	24.8%
1989	16,771	7,050	771	24,592	64.0%	9,069	161	17	9,247	24.1%
1990	15,915	6,057	744	22,715	64.5%	8,192	54	17	8,262	23.5%
1991	16,522	4,980	683	22,185	62.2%	9,074	12	11	9,096	25.5%
1992	18,641	672	221	19,534	60.4%	8,290	4	13	8,307	25.7%
1993	21,216	756	1481	23,453	60.4%	9,927	12	8	9,947	25.6%
1994	19,680	603	499	20,782	59.5%	9,258	3	10	9,271	26.5%
1995	20,900	616	517	22,033	60.8%	9,345	NA	NA	9,345	25.8%
1996	23,414	681	599	24,694	61.1%	10,891	NA	NA	10,891	26.9%
1997	22,465	619	488	23,572	60.4%	10,148	NA	NA	10,148	26.0%
1998	19,298	309	294	19,901	58.4%	8,906	NA	NA	8,906	26.1%
1999	18,277	281	244	18,802	57.8%	8,906	NA	NA	8,906	27.4%
2000	18,382	211	282	18,875	58.1%	9,301	NA	NA	9301	28.6%

Table NG5. (continued)

	GREAT FALLS GAS COMPANY/ ENERGY WEST <sup>4</sup>					OTHER UTILITIES <sup>5</sup>		TOTAL SALES <sup>6</sup>			
Year	Residential and Commercial	Industrial	Other	Total	% of Total Montana Sales	Total for all Sectors	% of Total Montana Sales	Residential and Commercial	Industrial	Other	TOTAL
1950	2,509	208	53	2,770	9.0%	6,481	20.9%	21,127	9,300	522	30,949
1951	2,697	311	191	3,199	9.0%	4,055	11.4%	20,342	14,461	690	35,493
1952	2,566	228	333	3,127	8.7%	852	2.4%	19,193	15,833	801	35,827
1953	2,478	238	350	3,066	8.7%	814	2.3%	18,744	15,725	830	35,299
1954	2,795	255	400	3,450	9.8%	892	2.5%	20,336	14,129	895	35,360
1955	3,284	243	434	3,961	9.5%	1,049	2.5%	23,158	17,750	967	41,875
1956	3,361	204	396	3,961	9.4%	1,019	2.4%	23,188	18,000	905	42,093
1957	3,510	258	451	4,219	9.7%	955	2.2%	24,846	17,841	943	43,630
1958	3,365	268	475	4,108	9.3%	1,067	2.4%	24,252	18,674	1,026	43,952
1959	4,048	388	566	5,002	11.0%	1,175	2.6%	28,302	15,951	1,073	45,326
1960	3,928	512	516	4,956	10.3%	1,152	2.4%	28,129	19,122	858	48,109
1961	4,067	380	606	5,053	10.2%	1,045	2.1%	28,318	20,640	783	49,741
1962	4,092	371	752	5,215	10.1%	1,078	2.1%	29,451	21,502	855	51,808
1963	4,030	396	793	5,219	9.8%	945	1.8%	28,694	23,924	872	53,490
1964	4,446	480	847	5,773	9.8%	1,018	1.7%	31,937	26,125	902	58,964
1965	4,767	499	868	6,134	9.8%	1,160	1.8%	34,859	27,124	929	62,912
1966	4,593	490	846	5,929	9.5%	1,125	1.8%	33,863	27,804	901	62,568
1967	4,505	397	856	5,758	9.6%	1,160	1.9%	34,276	24,976	923	60,175
1968	4,504	424	852	5,780	9.2%	1,074	1.7%	35,488	26,597	917	63,002
1969	5,042	412	891	6,345	9.0%	1,118	1.6%	37,585	32,225	946	70,756
1970	4,926	378	902	6,206	8.4%	1,010	1.4%	37,833	34,966	1,004	73,803
1971	4,901	367	895	6,163	8.4%	1,048	1.4%	36,517	34,265	2,662	73,444
1972	5,185	353	884	6,422	8.4%	1,105	1.4%	38,710	34,699	2,975	76,384
1973	4,729	414	864	6,007	7.9%	982	1.3%	37,007	35,014	3,857	75,876
1974	4,504	412	807	5,723	7.8%	936	1.3%	35,601	35,168	2,803	73,572
1975	5,145	354	845	6,344	8.5%	1,000	1.3%	39,686	32,258	2,368	74,312
1976	4,875	237	892	6,004	9.0%	762	1.1%	36,640	28,000	2,297	66,936
1977	4,317	246	734	5,297	8.6%	715	1.2%	35,343	24,270	2,185	61,798
1978	4,818	196	826	5,840	9.4%	824	1.3%	38,122	21,457	2,324	61,904
1979	4,512	249	750	5,512	9.0%	804	1.3%	37,958	19,847	3,487	61,294
1980	3,888	266	689	4,842	8.8%	669	1.2%	32,980	16,548	5,675	55,203
1981	3,257	169	619	4,044	8.4%	573	1.2%	29,358	15,234	3,373	47,962
1982	3,289	188	627	4,104	8.8%	596	1.3%	33,145	11,460	1,944	46,549
1983	3,320	206	636	4,162	10.1%	446	1.1%	28,553	10,809	1,820	41,182
1984	3,531	256	530	4,317	10.4%	487	1.2%	30,837	8,674	1,827	41,338
1985	3,719	181	536	4,436	10.7%	474	1.1%	32,203	7,560	1,826	41,589
1986	3,538	285	592	4,415	12.5%	465	1.3%	27,655	6,100	1,706	35,461
1987	3,064	193	442	3,699	11.5%	388	1.2%	25,254	5,805	1,205	32,264
1988	3,189	170	499	3,858	10.9%	386	1.1%	26,887	7,296	1,247	35,431
1989	3,567	160	411	4,138	10.8%	427	1.1%	29,834	7,371	1,199	38,404
1990	3,381	78	401	3,860	11.0%	392	1.1%	27,879	6,189	1,162	35,230
1991	3,435	164	389	3,988	11.2%	400	1.1%	29,430	5,156	1,083	35,669
1992	4,139	0	NA	4,139	12.8%	373	1.2%	31,443	676	234	32,353
1993	4,478	0	490	4,968	12.8%	432	1.1%	36,053	768	1,979	38,800
1994	3,971	0	478	4,449	12.7%	443	1.3%	33,352	606	987	34,945
1995	3,942	0	464	4,406	12.2%	447	1.2%	34,634	616	981	36,231
1996	4,362	0	NA	4,362	10.8%	498	1.2%	39,165	681	599	40,445
1997	4,496	0	314	4,810	12.3%	504	1.3%	37,613	619	802	39,034
1998	3,535	0	1331	4,866	14.3%	418	1.2%	32,157	309	1,625	34,091
1999	3,401	0	996	4,397	13.5%	427	1.3%	31,011	281	1,240	32,532
2000	3,058	0	1009	4,067	12.5%	239	0.7%	30,980	211	1,291	32,482

NA Not Available

\* See notes on following page.

Table NG5. (continued)

<sup>1</sup> Sales to other utilities for resale and sales of natural gas to Canada are not included.

<sup>2</sup> From 1950 to 1970, government and municipal sales were reported in the "Residential and Commercial" sector. "Other" includes interdepartmental use, sales to government and municipal authorities for heating, and special off-line sales to firms in Montana where these figures are reported separately.

The following 3 lines from Fran Balkovetz at MPC:

In 1991 is when MPC's Gas Utility started deregulating its customers. As a result, there have been changes in measured sales methodology from 1991 until present. This created differences after 1991 in how MPC's data is reported and is part of the reason why the numbers in the 'industrial' column decrease so sharply in 1992. It is very hard to reconcile these differences and thus the 1990's numbers are given as presented in Schedule 35

In 1992, some customers in the 'industrial' category left MPC as a result of deregulation

In 1992 and 1993, Schedule 35 was not reported like in later years. In 1992, figures used are from Actual Billed Volumes supplied by Fran Balkovetz at MPC

<sup>3</sup> Prior to 1975 "Other" includes interdepartmental use and natural gas used in MDU's electric generating plants at Baker, Glendive, and Miles City. Company consumption and unbilled customer consumption as part of a lease agreement at Saco are not included

The 1975-81 data uses slightly different sector definitions; as a result, consumption in the "Other" sector is not shown separately for these years

Since 1982 "Other" includes interdepartmental sales.

From 1992-2000, amount sold is reported in Dekatherms rather than MCF. From 1995 on, amounts for industrial and other usage not reported by MDU.

<sup>4</sup> "Other" includes sales to Malmstrom Air Force Base and other public authorities.

In 1999, Great Falls Gas became Energy West.

<sup>5</sup> "Other Utilities" includes the following companies (listed in approximate descending order by volume of sales):

Cut Bank Gas Company: Supplies natural gas to Cut Bank; approximately 80 percent of its gas is purchased from the Montana Power Company/NorthWestern Energy.

Shelby Gas Association: Supplies natural gas to Shelby; gas is purchased from the Montana Power Company/NorthWestern Energy.

Saco Municipal Gas Service: Supplied natural gas to Saco from the town's own wells.

Consumers Gas Company: Supplied natural gas to Sunburst and Sweetgrass; gas was purchased from the Montana Power Company and J.R. Bacon Drilling Company through the Treasure State Pipeline Company.

After 1991, Saco no longer reported any numbers and Consumers Gas was bought out by a municipal provider. Thus, those two are no longer added among "other utilities". No industrial numbers were given by any of these utilities after 1991.

Some of the smaller gas utilities have experienced problems measuring actual gas sales volumes. Therefore, the figures for these utilities should be considered estimates.

In the year 2000, Shelby did not report

<sup>6</sup> All gas sales from "Other" vary from utility to utility and from year to year, as indicated.

**NOTE:** Source documents from the Public Service Commission often report data at sales pressure rather than at a uniform pressure base. When necessary, the data were converted to the uniform pressure base of 14.73 psia at 60 degrees Fahrenheit using Boyle's law.

The source reports are for the companies' fiscal years ending during the year shown. Because reporting years vary from utility to utility, the data represent various twelve-month periods and are, in that sense, not strictly comparable.

The Saco Municipal Gas Service and the Cut Bank Gas Company have reporting years ending June 30. The Shelby Gas Association's reporting year ends September 30. The Consumer Gas Company, the Montana Power Company/NorthWestern Energy, and Montana-Dakota Utilities use calendar year reporting periods.

The Great Falls Gas Company used a calendar year reporting period through 1981; they filed a six-month report for the period January 1, 1982, through June 30, 1982, and then changed to a twelve-month reporting period ending June 30.

The 1982 figures were estimated by the sector averages from the 1981 and 1983 twelve-month reports. The 1983 figures and those for all subsequent years are based on twelve-month reports ending June 30 of that year.

**SOURCE:** Annual reports filed with the Montana Public Service Commission by the natural gas utilities (1950-00), supplemented by information obtained directly from the utilities. After 1993, schedule 35 of the annual reports of each utility was used.